

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1.-15. (Canceled)

16. (Original) A core for use in a motor, said motor including N and S magnetic poles for generating a magnetic field to which said core is opposed, said core comprising:

a plurality of slots formed in said core, said slots have an electrical angle which is one of:

a) between 80 degrees and 95 degrees; and

b) between 20 degrees and 35 degrees

a number of said magnetic poles is $2m$ and a number of said slot is $3n$ (m and n are integers, m is greater than or equal to 4)

wherein said core is configured by combining P core shapes each having their respective slots displaced by an angle equal to one- $2P$ -th the cycle of basic cogging torque $((180/n \cdot k)^\circ)$ in mechanical angle, where k is a least common multiple of $2m$ and $3n$.

17.-34. (Canceled)

35. (Original) A core for use in a motor, said motor including N and S magnetic poles for generating a magnetic field to which said core is opposed, said core comprising:

a plurality of slots formed in said core, said slots have an electrical angle which is one of:

a) between 80 degrees and 95 degrees; and

b) between 20 degrees and 35 degrees

wherein a number of magnetic poles is $2m$ and a number of slots of said core is $3n$ (m and n are integers),

wherein said core is configured by combining j core shapes each having their slots displaced by an angle equal to one- $2j$ -th (j is an integer equal to 3 or more) the cycle of basic cogging torque $((180/j \cdot k)^\circ)$ in mechanical angle, where k is a least common multiple of $2m$ and $3n$).

36.-37. (Canceled)

38. (Original) The core as described in claim 16 wherein

said core is structured by laminating thin plates of magnetic material.

39.-40. (Canceled)

41. (Original) The core as described in claim 35 wherein

said core is structured by laminating thin plates of magnetic material.

42.-44. (Canceled)

45. (Original) A motor including:

(a) magnetic field generating means having N and S magnetic poles for generating a magnetic field; and

(b) a core made of magnetic material and opposed to said magnetic field generating means;

wherein one of said magnetic field generating means and said core rotates with respect to the other,

wherein a number of said magnetic poles is $2m$ and a number of slots of said core is $3n$ (m and n are integers, $m \geq 4$),

a plurality of slots formed in said core, said slots have an electrical angle which is one of:

a) between 80 degrees and 95 degrees; and

b) between 20 degrees and 35 degrees

wherein said core is configured by combining P core shapes each having the slots displaced by an angle equal to one-2P-th the cycle of basic cogging torque $((180/n \cdot k)^\circ$ in mechanical angle, where k is a least common multiple of 2m and 3n).

46.-47. (Canceled)

48. (Original) A motor including:

(a) magnetic field generating means having N and S magnetic poles for generating a magnetic field; and

(b) a core made of magnetic material and opposed to said magnetic field generating means;

wherein one of said magnetic field generating means and said core rotates with respect to the other,

wherein in a case where a number of said magnetic poles is 2m and a number of slots of said core is 3n (m and n are integers),

a plurality of slots formed in said core, said slots have an electrical angle which is one of:

a) between 80 degrees and 95 degrees; and

b) between 20 degrees and 35 degrees

wherein said core is configured by combining j core shapes each having the slots displaced by an angle equal to one-2j-th (j is an integer equal to 3 or more) the cycle of basic cogging torque $((180/j \cdot k)^\circ$ in mechanical angle, where k is a least common multiple of 2m and 3n).

49. (Canceled)

50. (Original) The motor described in claim 45 wherein

polarization is performed at a skew angle of $(200/k)^\circ$ or less in central angle (k is the least common multiple of 2m and 3n).

51.-52. (Canceled)

53. (Original) The motor described in claim 48 wherein

polarization is performed at a skew angle of $(200/k)^\circ$ or less in central angle (k is the least common multiple of 2m and 3n).

54. (Canceled)

55. (Original) The motor described in claim 50 wherein

polarization is performed at a skew angle ranging from $(80/k)^\circ$ to $(100/k)^\circ$ in said central angle.

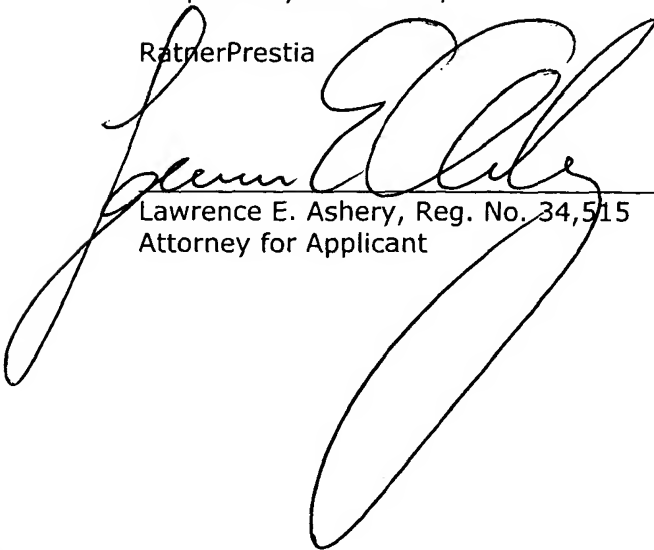
56.-57. (Canceled)

58. (Original) The motor described in claim 53 wherein

polarization is performed at a skew angle ranging from $(80/k)^\circ$ to $(100/k)^\circ$ in said central angle.

Respectfully submitted,

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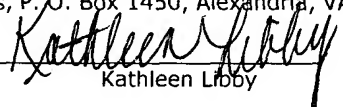
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